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1. N141-029: Advanced Submarine Monitoring with Improved Diagnostics and Prognostics

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to develop an innovative on-node functionality for wireless sensor systems that enables high bandwidth transient capture and analysis within the constraints of energy harvester-powered wireless sensors. DESCRIPTION: The Navy has an ongoing need to reduce total ownership costs and extend the life-cycle of components and systems to improve the reliability and overall o ...

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2. N141-030: Sense and Respond Technology Enabling Condition Based Maintenance (CBM)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative Sense and Respond maintenance system for the LCS platform DESCRIPTION: The Littoral Combat Ship (LCS) was designed to operate with a significantly smaller crew size than would be expected from a traditional manning concept (Ref 1). Commercial off the Shelf (COTS) and Open Architecture (OA) were maximized to reduce developmental timelines as part of the acquisit ...

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3. N141-031: Innovative Power Control System Software Utilizing Smart-grid / Micro-grid Technology for Naval Applications

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: This topic seeks innovative power management approaches for a shipboard power grid to effectively manage power for advanced high power loads. DESCRIPTION: Future ships are expected to have considerably increased power demands compared to ships of similar size constructed today. In addition, high energy weapons such as lasers and high energy sensors may be installed onto existing leg ...

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4. N141-032: Simulation of Mechanical System Kinematic Operation Subsequent to High Intensity Loading

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative solution to simulate kinematic operation of a mechanical system subsequent to high intensity loading. DESCRIPTION: The Navy"s shock hardening program is a critical element of the commitment to ensuring crew safety and mission capabilities of its war fighting vessels to extreme loadings. To certify complex mechanical systems meet Navy shock hardening requirements ...

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## 5. N141-033: Application of Phase Noise Discrimination to Electronic Warfare (EW)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research and develop methods to detect and quantify the phase noise and phase noise statistical parameters that correlate to threat types and platforms. DESCRIPTION: Phase noise is the change in the relative electrical phase of a radio frequency (RF) signal caused by other than intended modulations. Phase noise is generated not only by idiosyncrasies of the transmitter, but by the su ...

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## 6. N141-034: Monolithic Microwave Integrated Circuit (MMIC) Compatible Phase Shifters for Phased-Array Radars

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop Monolithic Microwave Integrated Circuit (MMIC) compatible phase shifters for phased array radar applications to lower system cost while maintaining radar performance. DESCRIPTION: Modern active electronically scanned phased array radars provide outstanding capability and performance, but they are very expensive because of the need for Radio Frequency (RF) power amplifiers at ...

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## 7. N141-035: JTRS Compliant Waveform for LCS Unmanned Vehicle Communications

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to develop an innovative Joint Tactical Radio System (JTRS) compliant technology that achieves LCS unmanned vehicle communication requirements. DESCRIPTION: The Littoral Combat Ship (LCS) deploys multiple Unmanned Vehicles in support of the interchangeable Mission Packages. The Multiple Vehicle Communications System (MVCS) provides LCS Mission Packages with the capab ...

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## 8. N141-036: Surface Composite Tracker Component

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a composite tracker component for AEGIS Weapon System that combines multiple sensor sources to optimize surface vehicular track accuracy. DESCRIPTION: US Navy Ships have sophisticated command and control systems that manage data from multiple sensors to generate and maintain the tactical picture. The command and

control system manages track-to-track association; track correl ...

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## 9. N141-037: Information Extraction and Scoring System

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an automated information extraction and scoring system for Electronic Warfare (EW) systems to provide disambiguated and intelligent sustainment solutions DESCRIPTION: Systems exist today that track ship-board inventories of spare equipment and other sustainment related needs. The use of these tracking systems requires that a user manually research and combine the information ...

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## 10. N141-038: Coating for Electromagnetic / Radio Frequency Interference (EMI/RFI) Attenuation

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative coating to attenuate Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) without compromising required optical characteristics. DESCRIPTION: Electronic signature control (REF #1) is one self-defense technique employed by the Navy. If the enemy can"t pick up the ships electronic signal, then they can"t target it. Therefore, the Navy needs to be abl ...

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